Datasheet for Models:
1SFWR
1SFW

NEW SLICK® range

Developed specifically for social and private housing, Slick® is the only range of fast-fit rechargeable ionisation and optical smoke alarms, and heat alarms guaranteed for 10 years. All Slick® alarms are BSi Kitemarked to reinforce the consistent quality provided by the world's largest manufacturer.

Lic No: KM524754
BS EN 14604: 2005

230V Mains Fast-Fit Ionisation Smoke Alarms

1SFWR – with the latest Rechargeable Polymer Lithium cell back-up and full 10-year guarantee.

1SFW – with Duracell loose alkaline battery back-up and 6-year guarantee.

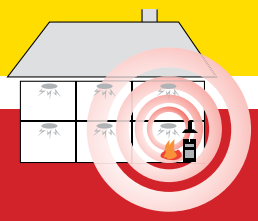
Key Features

- 'Wireless Capability' enabling use with Kidde Fyrnetics new Wireless Alarm Base (Model: **RF-SFTP**), for wire-free interconnection.
- Compatible with Kidde Fyrnetics new Remote Test & Hush switch (Model: **KN-RTH-RF**) via the Wireless Alarm Base.
- Integral, double-decker screwless terminal block for fast, push-fit connection.
- Unique fast-fit system with separate base plate, enabling fitting after construction and removal for maintenance.
- Auto resets after activation with latching LED allowing the initiating alarm to be identified.
- Separate Hush & Test buttons for ease of use.
- Green & Red LED's to indicate alarm status.
- Interlinkable with Slick® or Firex hard-wired smoke & heat alarms.
- Can be added to existing Slick® or Firex installations.
- Interlinkable with Kidde hard-wired CO alarms using 'Smart Interconnect' technology.
- Up to 6 months continuous operation from back-up cells, in the event of mains failure.
- 30 days low battery warning indicator.

Applications

Both models are mains powered (for professional installation) with back-up power, complying with current minimum requirements of the relevant Building Regulations for new housing, i.e. Grade D (BS5839, Part 6).

Ionisation Smoke Alarms are for use where a fast flaming fire (for example, electrical equipment igniting) is more likely to be a hazard than a slow, smouldering one, such as dining and living rooms. They are more prone to nuisance alarms from cooking particles and steam near kitchens. They contain a very small amount of Americium 241 radioactive material, which may be a consideration for storage and disposal.



wireless capability

Models 1SFWR and 1SFW

230V Mains Fast-Fit Ionisation Smoke Alarms

Technical Specification

Sensor	Ionisation, metallic chamber with 24 number slot entry inlet portals
Sensitivity	Complies with BS EN 14604: 2005
Source	Americium 241 (0.9 microcurie)
Button Test	Simulates the effect of smoke within the sensing chamber, checks electronics and sounder
Automatic Self-Test	Circuitry is tested every 40 seconds and unit beeps if fault is detected
Supply Voltage	230V AC, 50Hz (nominal UK Voltage)
Power Consumption	Maximum 80mA
Battery back-up	In-built Lithium Polymer rechargeable Battery (Model 1SFWR) User-replaceable Alkaline Battery 9 Volt MX1604 (Model 1SFW)
Battery Monitoring	Battery is monitored and unit emits a single chirp beep every 40 seconds if a fault is present
Power-On Indicator	Continuous green LED
Alarm	Electronic Piezoelectric sounder, (providing sound – three pulses; space; three pulses – in alarm state)
Alarm Sound Output	85dB (A) (minimum) at 3m
Alarm Frequency	3.2 kHz typical
Alarm Status	Red LED flashes rapidly indicating unit sensing fire event, rate typically onceevery two/three seconds Red LED double flashes every 30 seconds to indicate the unit is the triggering unit (LED latches until test button pressed) Red LED flashes once every ten seconds to indicate in hush condition, auto reset after seven minutes
Normal Operating Temperature Range	0 to 40°C
Humidity Range	Up to 93% Relative Humidity (RH)
Interconnect	Up to 24 of these units can be interconnected: - 1 SFW, 1SFWR, 2SFW, 2SFWR smoke alarms - 3SFW, 3SFWR heat alarms - 423/9HIR, 423D/9HIR CO alarm (hard-wire, non-Slick® base) - relay base
Interconnect Options	Wireless Compatible Using appropriate Wireless Base - Connectable via Wireless Base Model RF-SFTP (up to 15 units) - Connectable as hardwire with 'SMART® interconnect system (up to 24 units as 'interconnect' detail above). See user manuals downloadable from **www.smoke-alarms.co.uk** Use with optional control (see below)
Optional Controls	With the KN-RTH-RF Wireless Base Remote Test and Hush Unit, when used with the RF-SFTP Wireless alarm base
Fixing	Slick mounting base as supplied (deep base)
Base Cable Connections	Screwless Terminal Block with slot release feature for conductors
Dimensions	135mm diameter x 60mm depth (with Slick® mounting base)
Guarantee	10-years including the battery back-up (Model 1SFWR) 6-years excluding battery (Model 1SFW)
Approvals	Kitemarked to BSEN 14604:2005 (License no. KM524754) and CE tested and certified
Associated Standards	BS 5839 Part 6 Grade D

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www.smoke-alarms.co.uk

Kidde reserves the right to alter its products and specifications without notice in line with best practice and continuous improvement.

SlickRF/SSInp/611

Datasheet for Models:
2SFWR
2SFW

NEW SLICK® range

Developed specifically for social and private housing, Slick® is the only range of fast-fit rechargeable ionisation and optical smoke alarms, and heat alarms guaranteed for 10 years. All Slick® alarms are BSi Kitemarked to reinforce the consistent quality provided by the world's largest manufacturer.

Lic No: KM524754
BS EN 14604: 2005

230V Mains Fast-Fit Optical Smoke Alarms

2SFWR – with rechargeable Lithium cell back-up and full 10-year guarantee.

2SFW – with Duracell loose alkaline battery back-up and 6-year guarantee.

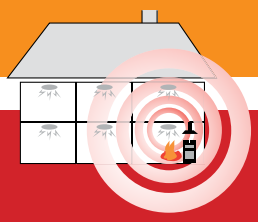
Key Features

- 'Wireless Capability' enabling use with Kidde Fyrnetics new Wireless Alarm Base (Model: **RF-SFTP**), for wire-free interconnection.
- Compatible with Kidde Fyrnetics new Remote Test & Hush switch (Model: **KN-RTH-RF**) via the Wireless Alarm Base.
- Integral, double-decker screwless terminal block for fast, push-fit connection.
- Unique fast-fit system with separate base plate, enabling fitting after construction and removal for maintenance.
- Auto resets after activation.
- Separate Hush & Test buttons for ease of use.
- Green & Red LED's to indicate alarm status.
- Interlinkable with Slick® or Firex hard-wired smoke & heat alarms.
- Can be added to existing Slick® or Firex installations.
- Interlinkable with Kidde hard-wired CO alarms using 'Smart Interconnect' technology.
- Up to 6 months continuous operation from back-up cells, in the event of mains failure.
- 30 days low battery warning indicator.

Applications

Both models are mains powered (for professional installation) with back-up power, complying with current minimum requirements of the relevant Building Regulations for new housing, i.e. Grade D (BS5839, Part 6).

Optical Smoke Alarms are for use in escape and circulation routes and in areas where there is danger of ignition of furniture and surroundings by cigarettes. They are best suited to slow, smouldering fires such as PVC cabling, foam-filled furniture or bedding material. They are less prone to nuisance alarms than Ionisation alarms from cooking particles and steam near kitchens.



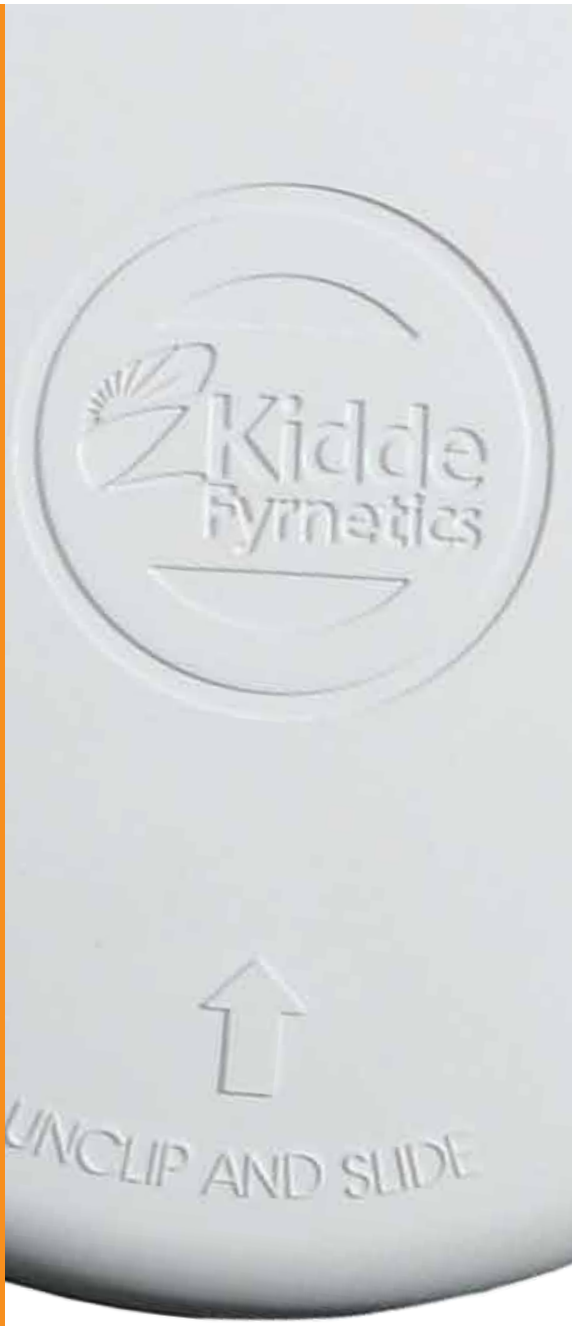
wireless capability

Models 2SFWR and 2SFW

230V Mains Fast-Fit Optical Smoke Alarms

Technical Specification

Sensor	Optical chamber with insect resistant width slot entry inlet portals
Chamber Size	41mm outside diameter x 16mm approximate depth (external)
Sensitivity	Complies with BS EN 14604: 2005
Detection Band	Infrared light wavelength
Button Test	Simulates the effect of smoke within the sensing chamber, checks electronics and sounder
Automatic Self-Test	Circuitry is tested every 40 seconds and unit beeps if fault is detected
Supply Voltage	230V AC, 50Hz (nominal UK Voltage)
Power Consumption	Maximum 80mA
Battery back-up	Four, in-built Lithium rechargeable cells (Model 2SFWR) User replaceable Alkaline Battery 9 Volt MX1604 (Model 2SFW)
Battery Monitoring	Battery is monitored and unit emits a single chirp beep every 40 seconds if a fault is present
Power-On Indicator	Continuous green LED
Alarm	Electronic Piezoelectric sounder, (providing sound – three pulses; space; three pulses – in alarm state)
Alarm Sound Output	85dB (A) (minimum) at 3m
Alarm Frequency	3.2 kHz typical
Alarm Status	Red LED flashes rapidly indicating unit sensing fire event, rate typically once every two/three seconds Red LED flashes once every ten seconds to indicate in hush condition, auto reset after seven minutes
Normal Operating Temperature Range	0 to 40°C
Humidity Range	Up to 93% Relative Humidity (RH).
Interconnect	Up to 24 of these units can be interconnected: - 1 SFW, 1SFWR, 2SFW, 2SFWR smoke alarms - 3SFW, 3SFWR heat alarms - 423/9HIR, 423D/9HIR CO alarm (hard-wire, non-Slick® base) - relay base
Interconnect Options	Wireless Compatible Using appropriate Wireless Base - Connectable via Wireless Base Model RF-SFTP (up to 15 units) - Connectable as hardwire as 'SMART® interconnect system (up to 24 units as 'interconnect 'detail above). See user manuals downloadable from **www.smoke-alarms.co.uk** Use with optional control (see below)
Optional Controls	With the KN-RTH-RF Wireless Base Remote Test and Hush Unit, when used with the RF-SFTP Wireless alarm base
Fixing	Slick mounting base as supplied (deep base)
Base Cable Connections	Screwless Terminal Block with slot release feature for conductors
Dimensions	135mm diameter x 60mm depth (with Slick® mounting base)
Guarantee	10-years including the battery back-up (Model 2SFWR) 6-years excluding battery (Model 2SFW)
Approvals	Kitemarked to BSEN 14604:2005 (Licence no. KM524754) and CE tested and certified
Associated Standards	BS 5839 Part 6 Grade D



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SlickRF/SSInp/611

Datasheet for Models:
3SFWR
3SFW

NEW SLICK® range

Developed specifically for social and private housing, Slick® is the only range of fast-fit rechargeable ionisation and optical smoke alarms, and heat alarms guaranteed for 10 years. All Slick® alarms are BSi Kitemarked to reinforce the consistent quality provided by the world's largest manufacturer.

Lic No: 503753
BS 5446: Pt. 2: 2003

230V Mains Fast-Fit Heat Alarms

3SFWR – with the latest Rechargeable Polymer Lithium cell back-up and full 10-year guarantee.

3SFW – with Duracell loose alkaline battery back-up and 6-year guarantee.

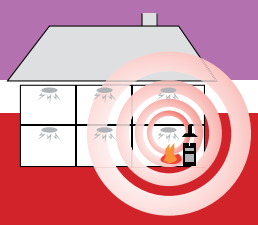
Key Features

- 'Wireless Capability' enabling use with Kidde Fyrnetics new Wireless Alarm Base (Model: **RF-SFTP**), for wire-free interconnection.
- Compatible with Kidde Fyrnetics new Remote Test & Hush switch (Model: **KN-RTH-RF**) via the Wireless Alarm Base.
- Integral, double-decker screwless terminal block for fast, push-fit connection.
- Unique fast-fit system with separate base plate, enabling fitting after construction and removal for maintenance.
- Auto resets after activation with latching LED allowing the initiating alarm to be identified.
- Separate Hush & Test buttons for ease of use.
- Green & Red LED's to indicate alarm status.
- Interlinkable with Slick® or Firex hard-wired smoke & heat alarms.
- Can be added to existing Slick® or Firex installations.
- Interlinkable with Kidde hard-wired CO alarms using 'Smart Interconnect' technology.
- Up to 6 months continuous operation from back-up cells, in the event of mains failure.
- 30 days low battery warning indicator.

Applications

Both models are mains powered (for professional installation) with back-up power, complying with current minimum requirements of the relevant Building Regulations for new housing, i.e. Grade D (BS5839, Part 6).

Heat Alarms are for use in humid or dusty environments where smoke alarms will not operate satisfactorily, such as kitchens, boiler rooms, unconverted attics and garages. They are triggered when the ambient temperature reaches 57°C and must always be interconnected with smoke alarms from the same product range.



wireless capability

Models 3SFWR and 3SFW

230V Mains Fast-Fit Heat Alarms

Technical Specification

Sensor	Thermistor (Thermal resistor) within detection unit
Sensitivity	Complies with BS 5446 Pt 2. 2003, as a Class A2 device, it will alarm at between 54°C and 70°C
Button Test	Simulates the effect of heat at the sensor, checks electronics and sounder
Automatic Self-Test	Circuitry is tested every 40 seconds and unit beeps if fault is detected
Supply Voltage	230V AC, 50Hz (nominal UK Voltage)
Power Consumption	Maximum 80mA
Battery back-up	In-built Lithium Polymer rechargeable Battery (Model 3SFWR) User-replaceable Alkaline Battery 9 Volt MX1604 (Model 3SFW)
Battery Monitoring	Battery is monitored and unit emits a single chirp beep every 40 seconds if a fault is present
Power-On Indicator	Continuous green LED
Alarm	Electronic Piezoelectric sounder, (providing sound – three pulses; space; three pulses – in alarm state)
Alarm Sound Output	85dB (A) (minimum) at 3m
Alarm Frequency	3.2 kHz typical
Alarm Status	Red LED flashes rapidly indicating unit sensing fire event, rate typically once every two/three seconds Red LED double flashes every 30 seconds to indicate the unit is the triggering unit (LED latches until test button pressed) Red LED flashes once every ten seconds to indicate in hush condition, auto reset after seven minutes
Normal Operating Temperature Range	0 to 40°C
Humidity Range	Up to 93% Relative Humidity (RH)
Interconnect	Up to 24 of these units can be interconnected: - 1 SFW, 1SFWR, 2SFW, 2SFWR smoke alarms - 3SFW, 3SFWR heat alarms - 423/9HIR, 423D/9HIR CO alarm (hard wire, non-Slick® base) - relay base See user manuals downloadable from **www.smoke-alarms.co.uk**
Interconnect Options	Wireless Compatible Using appropriate Wireless Base - Connectable via Wireless Base Model RF-SFTP (up to 15 units) - Connectable as hardwire with SMART® interconnect system (up to 24 units as 'interconnect 'detail above). See user manuals downloadable from **www.smoke-alarms.co.uk** Use with optional control (see below)
Optional Controls	With the KN-RTH-RF Wireless Base Remote Test and Hush Unit, when used with the RF-SFTP Wireless alarm base
Fixing	Slick mounting base as supplied (deep base)
Base Cable Connections	Screwless Terminal Block with slot release feature for conductors
Dimensions	135mm diameter x 89mm depth approximately (with Slick® mounting base)
Guarantee	10-years including the battery back-up (Model 3SFWR) 6-years excluding battery (Model 3SFW)
Approvals	Kite-marked to BS 5446 pt 2 2003 (License no. KM503753) and CE tested and certified
Associated Standards	BS 5839 Part 6 Grade D

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SlickRF/5Shp/611

Datasheet for Accessory Model:
RF-SFTP

NEW SLICK® range

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Kidde Fyrnetics
SLICK
RF-SFTP
Wireless Alarm Base
Radio interlink base for Kidde Slick® alarms. Speeds up installation, especially on retrofits. Causes less disruption.
10 YEARS
Easy to install
Fast, screwless termination and slide-in fixing – means no cable harness required
Integral rechargeable back-up
230V RF interlink base with hard wired supply, RF interconnection (15 alarm units).
wireless

230V Mains Wireless Alarm Base with Rechargeable battery back-up –

for use with NEW Slick® 'Wireless Capability' smoke and heat alarms.

Key Features

The RF-SFTP unit is an accessory which can simply be fitted in place of the standard base plate on NEW Slick® ('wireless capability') alarms. It enables a versatile system of interconnected alarm units to be set up without the need for additional interconnection cable. The base has a rechargeable lithium battery designed to provide up to 3 months supply on mains failure. Both the base and the battery are guaranteed for ten years.

The base includes the Slick® mounting platform for the alarm unit and features a screwless terminal block connection system for the supply cabling. Conductors can be push-fit installed and also released easily using a screwdriver in the release slot of the block. Due to the unique identification code for the units, the system can be installed in properties within close proximity to other RF and Kidde systems without cross interference to the operating system. Up to 15 alarm units can be interconnected, together with one KN-RTH-RF test and hush switch, in one system.

The RF-SFTP has an amber LED which also warns of the battery in the wireless alarm base being in a low state by its rate of flash (one flash every ten seconds). The RF-SFTP allows a system to be set up involving the selection of one base as a MASTER and the others to operate as REMOTES. The system operates as a monitored RF system, signalling to and from the MASTER unit which broadcasts every ten seconds, monitoring the responses from the REMOTES. On battery back-up, the units are not supervised but do 'listen' for signal messages. On mains power being restored the system re-establishes itself.

An RF-STFP base can be hard wired into existing Kidde Slick® and Firex smoke and heat alarms to provide wireless solution with further accessories.

Operational Characteristics

- If an attached smoke or heat alarm is activated into an alarm state, the wireless alarm base transmits an alarm activation signal using the 868MHz frequency range, causing the other smoke or heat alarm units to enter alarm state, operating as a system. When the triggering unit ceases alarm state the attached units in the system go back into standby state.
- The wireless alarm base has LED lights providing visual status information of the unit base showing signal strength reception, unit status identification (MASTER or REMOTE) and signal loss warning.
- The base has dual antennas with automatic 'strongest signal strength' selection and RF link monitoring (visual status by LEDs on mains healthy only)
- The bases each have a unique identification address and initial communication set-up is by a simple two-button operation saving time on installation.

wireless

Model RF-SFTP

230V Mains Wireless Alarm Base

Technical Specification

Supply Voltage	230V AC, 50Hz (nominal UK Voltage)
Power Consumption	Maximum 100 mA
Battery back-up	Rechargeable Lithium Polymer Battery
Power-On Indicator	Green LED with additional flash rate feature indicating 'MASTER' or 'REMOTE' status
Alarm Frequency	868 MHz
Wireless Range	Greater than 150 metres in free space
Alarm Status	Amber LED and Green LED provide flashing patterns indicating unit is MASTER or REMOTE operating normally, has a low battery, and signal strength visual flash rate in set up mode. Constant Green and Amber shows out-of-box condition prior to setting-up. (See user manual for further details)
Normal Operating Temperature Range	0 to 40°C
Humidity Range	Up to 95% Relative Humidity for base (alarms are up to 93% RH)
Interconnect	Up to 15 of these units can be interconnected: - 1 SFW, 1SFWR, 2SFW, 2SFWR smoke alarms - 3SFW, 3SFWR heat alarms
Interconnect Options	- Connectable via Wireless frequency up to 15 units - Connectable as hardwire to existing system as upgrade. (Note only one RF wireless base is hardwired into existing system, the remainder via RF). See user manuals downloadable from **www.smoke-alarms.co.uk** Use with optional control (see below).
Optional Controls	With the KN-RTH-RF Wireless Base Remote Test and Hush Unit
Fixing	Screws and wall/ceiling plugs provided for base and unit. Incorporates Slick® mounting platform for alarm units
Base Hole Spacing	Three holes in line – spacing 60mm, 80mm and 20mm approximately
Dimensions	127mm diameter x 35mm depth
Weight	Single unit in box – 248 grams Single unit out of box – 179 grams
Guarantee	10-years, including battery back-up, from date of purchase
Barcode	047871089185
Approvals	CE compliancy EMC directive 89/336/EEC R&TTE Directive 99/5/EC ETSI EN 301 489-1 V1.8.1 (2008-04) ETSI EN 301 489-3 V1.4.1 (2002-08) ETSI EN 300 220-1 V2.3.1 (2009-04) ETSI EN 300 220-2 V2.3.1 (2006-04) EN 55022:2006 EN 61000-3-2:2006 EN 61000-3-3:2005
Associated Standards	BS 5839 Part 6 Grade D accessory (to be used with smoke and heat alarms). Provides an element of central control if used with the KN-RTH-RF Remote Test and Hush unit as Grade C

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SlickSSFTP711

Datasheet for Accessory Model:
KN-RTH-RF

NEW SLICK® range

Developed specifically for social and private housing, Slick® is the only range of fast-fit rechargeable ionisation and optical smoke alarms, and heat alarms guaranteed for 10 years. All Slick® alarms are BSi Kitemarked to reinforce the consistent quality provided by the world's largest manufacturer.

Portable Remote Test & Hush switch powered by integral lithium battery –

for use with NEW Slick® 'Wireless Capability' smoke and heat alarms via

Key Features

The Remote Test & Hush switch is simply wireless linked to a NEW Slick® Wireless Alarm Base and can be used to test that alarm. It can also be used to silence the linked alarm or all but the initiating interconnected alarms. The KN-RTH-RF has a non-replaceable lithium battery designed to serve the unit's full lifespan of ten years. It features an easy enrol procedure to wirelessly connect it to a suitable wireless alarm base and this can be changed to suit the application/position of the alarm.

The KN-RTH-RF is designed for up to 15 Wireless Alarm Base units to be used with one RTH test and hush switch within a single system, although this can be varied. It is guaranteed for five years and has a power-saving feature which 'locks out' after 36 seconds when continuous button depression occurs to avoid accidental drain in transmission. A four second delay response to button depression assists in battery lifespan achievement. The KN-RTH-RF has raised symbols below the buttons to assist with button identification in poor light situations. An RTH unit can be utilised with a wireless alarm base to allow existing Kidde Slick® smoke and heat alarms to provide a wireless test/hush solution.

Operational Characteristics

- When the 'Test' button is pressed on the KN-RTH-RF, it transmits a test alarm activation signal using the 868MHz frequency range. This causes the enrolled wireless alarm base to signal and causes that unit and other interconnected smoke or heat alarm units to enter alarm state, operating as a system via the MASTER Wireless Alarm Base. When the triggering unit ceases alarm state the attached units in the system go back into standby state.
- When the 'Hush' button is pressed on the KN-RTH-RF, it transmits a hush alarm activation signal using the 868MHz frequency range. This causes the enrolled wireless alarm base to signal and causes that unit or the other smoke or heat alarm units to come out of alarm state operating as a system via the MASTER Wireless Alarm Base. In other words the alarm linked to the KN-RTH-RF will silence OR all but the initiating alarm will silence.
- The KN-RTH-RF unit has a visual LED light providing visual operating confirmation when the buttons are pressed.
- The RTH is light and portable, can be used on a table top or fixed to a suitable wall using the separate mounting bracket and screws provided. It can easily be removed from, and replaced onto the mounting bracket shown on left, adding to its simplicity.

wireless

Model KN-RTH-RF

Portable Remote Test & Hush switch

Technical Specification

Supply	Battery – inbuilt
Power Consumption	Lifespan rated at ten years (based on normal operation)
Battery	Lithium battery with ten year life
Operation Indicator	LED flash on button depression showing transmission
Alarm Frequency	868 MHz
Wireless Range	Up to 10 metres
Unit Operation	See user manual for further details
Normal Operating Temperature Range	0 to 40°C
Humidity Range	Up to 95% Relative Humidity for base (alarms are up to 93% RH)
Colour	White
Optional Controls	Test Button (Non-Latching) Hush Button (Non-Latching)
Fixing	Screws and wall/ceiling plugs provided with mounting bracket
Bracket Hole Spacing	Two holes in line – spacing 36mm approximately
Dimensions	89mm x 89mm x 34mm depth
Weight	Single unit in box – 141 grams Single unit out of box – 117 grams
Guarantee	5-years including the battery back-up from date of purchase
Approvals	CE compliancy EMC directive 89/336/EEC R&TTE Directive 99/5/EC ETSI EN 301 489-1 V1.8.1 (2008-04) ETSI EN 301 489-3 V1.4.1 (2002-08) ETSI EN 300 220-1 V2.3.1 (2009-04) ETSI EN 300 220-2 V2.3.1 (2006-04) EN 55022:2006 EN 61000-3-2:2006 EN 61000-3-3:2005
Associated Standards	BS 5839 Part 6 Grade D accessory (to be used with smoke and heat alarms with the appropriate bases). Provides an element of some central control as Grade C

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SlickSS/RTH/711

Datasheet for Models:
423D/9HIR
423/9HIR

ICO

Developed for professional, hard-wired installation the ICO range is mains powered, with integral rechargeable lithium battery backup, and fully guaranteed for 6 years. All Kidde CO alarms are BSi Kitemarked to reinforce the consistent quality provided by the world's largest manufacturer.

BS EN 50291: 2001
Licence No. KM98848

230V Mains Carbon Monoxide Alarms

423D/9HIR – with digital display and Peak Level feature

423/9HIR – non-digital model

Key Features

- Mains powered with sealed-in, rechargeable lithium cells for back-up preventing tenant access
- Product life of 7 years from initial power-up and full guarantee for 6 years
- Kidde's own CO sensors have unrivalled long-term testing regime demonstrating excellent stability over time – with third party validation
- CO cells use safer and environmentally friendly de-ionised water electrolyte
- Checks the environment for CO once every 15 seconds
- Neat circular design ICO for ceiling or wall mounting, quickly connected with snap-on harness and locking into place by default for tamper-resistance
- Separate easy to follow user and installer manuals included and also available on our website
- Unique Smart Interconnect allowing ICO alarms to interlink with Kidde Fyrnetics Slick® hard wired smoke and heat alarms, on one wiring network
- Digital display model indicates "Fire" if triggered by interconnected smoke/heat alarm, or "CO" if triggered by interconnected CO alarm
- Digital display model provides early warning of intermittent and low levels of carbon monoxide with Peak Level button to help identify CO problems when the property is unoccupied.

Applications

Kidde Fyrnetics ICO hard wired carbon monoxide alarms are ideal for new-build, major refurbishment of existing properties or complete re-wiring. They can be ceiling or wall mounted either in rooms where a potential source of CO is present or where occupants spend most time. In bedrooms, they can alert sleeping occupants of fire, as well as CO, when linked to Kidde Fyrnetics hard-wired smoke, heat and CO alarms using Smart Interconnect.

GUARANTEED 6 YEARS

RECHARGEABLE LITHIUM

HEAT CARBON MONOXIDE SMOKE
SMART INTERCONNECT

Models 423D/9HIR and 423/9HIR

230V Mains Carbon Monoxide Alarms

Technical Specification

Sensor	Electrochemical with de-ionised water electrolyte, sampling once every 15 seconds. Manufactured by Kidde
Temperature	Battery Temperature Range: 4°C to 38°C
Humidity	Operating range: 5% - 95% RH
Audible Alarm	85 dB at 3 metre
Power	230V AC; 50Hz; 30mA max per alarm
Wiring	To be in accordance with the latest IEE Regulations, BS7671, via a supplied cable harness
Back-up	8.2V integral rechargeable lithium battery
Test/Reset Button	Yes
Peak Level Memory	Yes – on Model 423D/9HIR
Alarm Response Times	30 PPM = no alarm within 120 minutes 50 PPM = must alarm within 60 - 90 minutes 100 PPM = must alarm within 10 - 40 minutes 300 PPM = must alarm within 3 minutes
Dimensions	Alarm diameter – 147mm x depth 42mm Base diameter – 144mm Weight – 350g
Guarantee	6 years
Approvals	Kitemarked to BS EN 50291:2001 (Licence no. KM98848)
Replacement	7 years after commissioning
Accessories	The SMK23 Surface Pattress can be used if necessary

Typical Specification

ICO mains powered Carbon Monoxide Alarm of circular design, model 423D/9HIR with digital display [or non-digital model 423/9HIR], manufactured by Kidde Fyrnetics. The alarm to have a sealed-in rechargeable lithium back-up power supply and be activated by an on/off switch. The alarm shall comply with BS EN 50291:2001 and be BSi Kitemarked. Both alarm and integral rechargeable battery to be fully guaranteed for 6 years. The alarm shall have the manufacturer's own electrochemical sensor with de-ionised water electrolyte sampling the environment for CO once every 15 seconds.

The alarm shall have a tamper resisting, self-locking installation system with base-plate supplied. The alarm to be capable of interconnection to other compatible Kidde hard wired smoke, heat and CO alarms without any need for a special accessory between them. The alarm shall incorporate the "Smart Interconnect" feature that allows it to respond to a smoke/heat incident when interconnected with compatible Kidde smoke or heat alarms. The alarm to be capable of wall or ceiling mounting, using a surface mounted pattress (Kidde part SMK23). In new build, a dry lining box may be used (with pegs) to fix down the terminal block.

Kidde

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Kidde reserves the right to alter its products and specifications without notice in line with best practice and continuous improvement.

ICO/SS/hp/212

Datasheet for Models:
KF1R
KF1

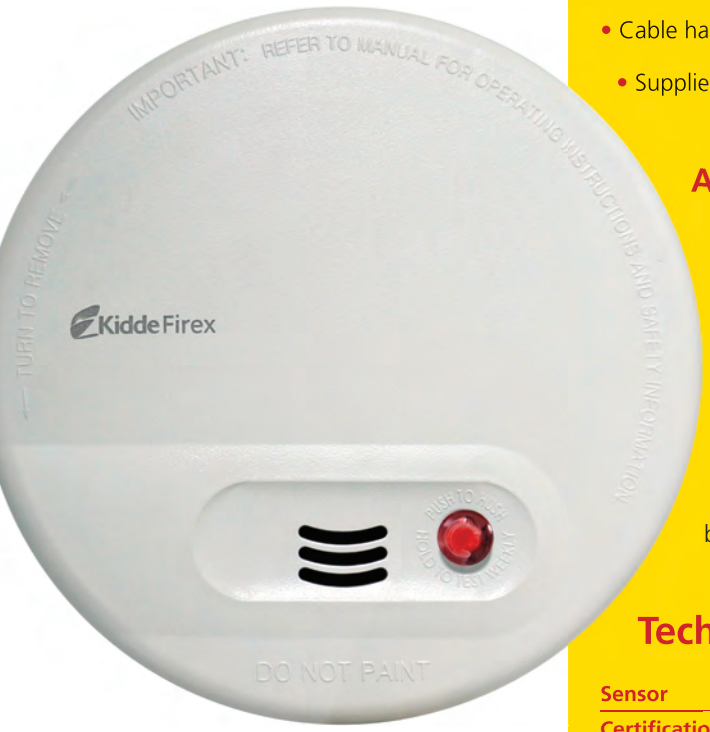
The new-look, cost-effective Firex cable-harness range of smoke and heat alarms – manufactured and supplied by Kidde, with the reassurance of a leading global manufacturer.

230V Mains Ionisation Smoke Alarms

Key Features

Firex hard-wired smoke and heat alarms all have a full 6-year guarantee and are BSi Kitemarked to reinforce the consistent quality provided by the world's largest manufacturer. Ionisation and optical models are complemented by heat alarms for situations unsuitable for smoke alarms, such as kitchens and garages.

- Single 'Hush' and 'Test' button
- Choice of sealed-in rechargeable (three Panasonic lithium cells) or loose battery back-up ranges
- Cable harness type connection and interconnectable up to 24 units
- Supplied with base-plate



Lic No: KM524754
BS EN 14604: 2005

Applications

Both models are mains powered (for professional installation) with back-up power, complying with current minimum requirements of the relevant Building Regulations for new housing, i.e. Grade D (BS5839, Part 6).

Ionisation Smoke Alarms are for use where a fast flaming fire (for example, electrical equipment igniting) is more likely to be a hazard than a slow, smouldering one, such as from furniture and bedding. They are more prone to nuisance alarms from cooking particles and steam near kitchens. They contain a very small amount of Americium 241 radioactive material, which may be a consideration for future disposal.

Technical Specification

Sensor	Ionisation, circular metallic chamber with 24 slot entry inlet portals
Certification	BSi Kitemarked to BS EN 14604: 2005
Source	Americium 241 (≤1.0 microcurie, 37kBq)
Button Test	Simulates the effect of smoke within the sensing chamber, checks electronics and sounder
Automatic Self-Test	Circuitry is tested and unit single beeps (chirps) if fault is detected
Supply Voltage	230V AC, 50Hz (nominal UK Voltage)
Power Consumption	Typical 50mA
Connection	Push fit/snap in grip type connector with 150mm long flying leads (supplied)
Battery back-up	(Model KF1) 1 off 9 Volt Alkaline Battery 522/6LR61 (User Replaceable) (Model KF1R) 3 off 3 Volt Rechargeable Lithium Cells Panasonic UL2330 (User Non replaceable)

Kidde Firex – 2012 model numbers
(previous models in brackets)

Back-up type	Sealed-in rechargeable	Loose battery
Alarm type		
Ionisation smoke	KF1R (4881)	KF1 (4870)
Optical smoke	KF2R (4985)	KF2 (4973)
Heat	KF3R (4892)	KF3 (4899)

Models KF1R and KF1

230V Mains
Ionisation Smoke Alarms

Technical Specification (cont)

Power-On Indicator	Continuous green LED showing mains power present
Alarm	Electronic Piezoelectric sounder, providing sound – three pulses; space; three pulses – in alarm state
Alarm Sound Output	85dB (A) (minimum) at 3m
Alarm Frequency	3.2 kHz typical
Alarm Status	Red LED flashes approximately once a minute showing normal operation Red LED flashes once a second when sensing smoke (sounder alarm sounds) RED LED flashes once every ten seconds to indicate in hush condition, auto reset after fifteen minutes RED LED off another smoke alarm in an interconnected system has sensed smoke and is signalling an alarm
Normal Operating Temperature Range	0 to 40°C
Humidity Range	Up to 93% Relative Humidity (RH)
Interconnect	Up to 24 of these units can be interconnected: - KF1R, KF1, KF2R, KF2, KF3R, KF3 - 1SFW, 1SFWR, 2SFW, 2SFWR, 3SFW, 3SFWR
Interconnect Options	Connectable as hard-wire interconnected system (up to 24 units as 'interconnect' detail above) Note: Firex may be connected to Kidde Fyrnetics Slick® alarms. See user manuals downloadable from **www.smoke-alarms.co.uk** Use with optional remote control (see below)
Optional Controls	REMTH Wired Remote Test and Hush Unit allows test and hush of units interlinked as a system
Optional Surface Pattresses	SMK23U allows for surface conduit installations, such as retrofit. SMK23RU as above but with integral switchable relay for operating remote devices. Requires a live mains supply to function. SMK23RU relay base with voltage free relay contacts rated at 8A 24VDC, 8A 250Vac (resistive load), (relay for signalling/switching to/of devices other than the smoke or heat alarms) 132mm diameter x 20mm depth
Fixing	Mounting bracket ring supplied with two 'T' slot fitting option 57mm spacing to max of 90mm for standard screw fittings on back boxes Bracket has central access hole of 50mm diameter for cabling
Plastics used	NORYL, Cover, main body and mounting bracket
Dimensions	127mm diameter x 39mm depth (including mounting bracket)
Dimensions (Mounting Bracket)	133mm diameter, 9mm max depth typical
Weight	KF1 unit out of box – 231 grams KF1 unit in single box – 269 grams KF1R unit out of box – 199 grams KF1R unit in single box – 297 grams
Guarantee	6 years (including the battery on model KF1R)
BS 5839 Category	BS 5839 Part 6 Grade D BS 5839 part 6 Grade C when used with the REMTH unit giving some elements of a central control

Specifications are subject to variation by improvement and change

Wired Remote
Test and Hush Unit

Kidde Fyrnetics

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FirexIonSSInp/812

Datasheet for Models:
KF2R
KF2

The new-look, cost-effective Firex cable-harness range of smoke and heat alarms – manufactured and supplied by Kidde, with the reassurance of a leading global manufacturer.

230V Mains Optical Smoke Alarms

Key Features

Firex hard-wired smoke and heat alarms all have a full 6-year guarantee and are BSi Kitemarked to reinforce the consistent quality provided by the world's largest manufacturer. Ionisation and optical models are complemented by heat alarms for situations unsuitable for smoke alarms, such as kitchens and garages.

- Single 'Hush' and 'Test' button
- Choice of sealed-in rechargeable (three Panasonic lithium cells) or loose battery back-up ranges
- Cable harness type connection and interconnectable up to 24 units
- Supplied with base-plate

Lic No: KM524754
BS EN 14604: 2005

Applications

Both models are mains powered (for professional installation) with back-up power, complying with current minimum requirements of the relevant Building Regulations for new housing, i.e. Grade D (BS5839, Part 6).

Optical Smoke Alarms are for use in escape and circulation routes and in areas where there is danger of ignition of furniture and surroundings by cigarettes. They are best suited to slow, smouldering fires such as PVC cabling, foam filled furniture or bedding material. They are less prone to nuisance alarms than Ionisation alarms from cooking particles and steam near kitchens.

Technical Specification

Sensor	Optical circular lateral chamber with insect resistant width, 9 slot entry inlet portals
Chamber Size	35mm outside diameter x 16mm depth approximate (external)
Certification	BSi Kitemarked to BS EN 14604: 2005
Detection Band	Infrared light wavelength
Button Test	Simulates the effect of smoke within the sensing chamber, checks electronics and sounder
Automatic Self-Test	Circuitry is tested and unit single beeps (chirps) if fault is detected
Supply Voltage	230V AC, 50Hz (nominal UK Voltage)
Power Consumption	Typical 50mA
Connection	Push fit/snap in grip type connector with 150mm long flying leads (supplied)
Battery back-up	(Model KF2) 1 off 9 Volt Alkaline Battery 522/6LR61 (User replaceable) (Model KF2R) 3 off 3 Volt Rechargeable Lithium Cells Panasonic UL2330 (User Non replaceable)

Kidde Firex – 2012 model numbers
(previous models in brackets)

Back-up type	Sealed-in rechargeable	Loose battery
Alarm type		
Ionisation smoke	KF1R (4881)	KF1 (4870)
Optical smoke	KF2R (4985)	KF2 (4973)
Heat	KF3R (4892)	KF3 (4899)

Models KF2R and KF2

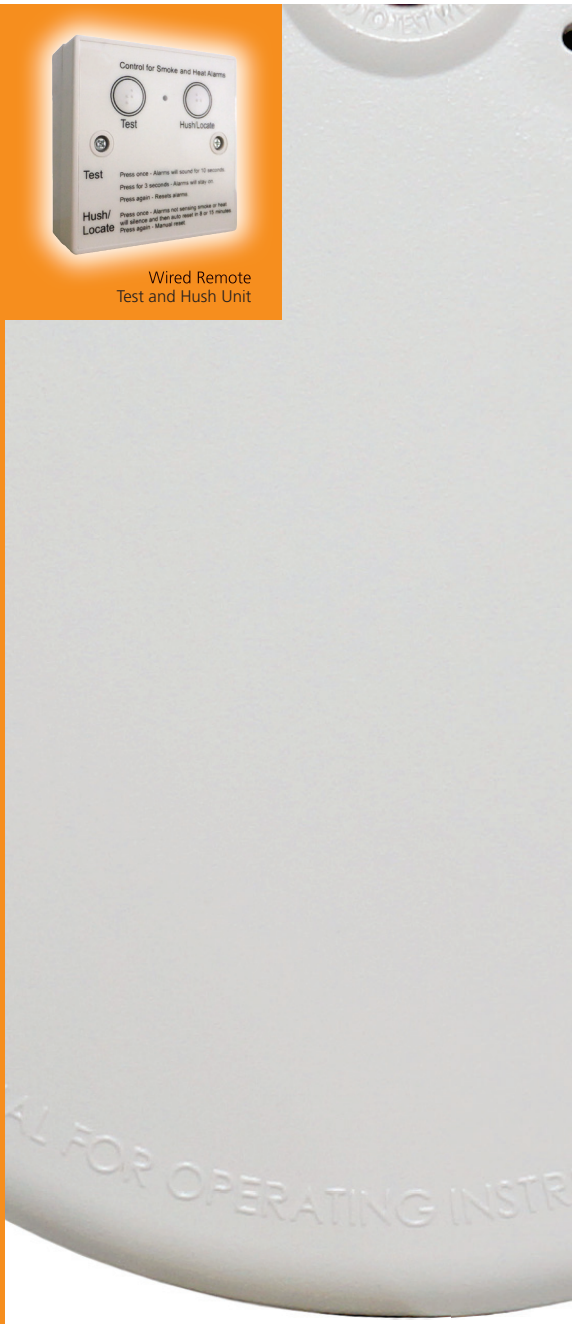
230V Mains Optical Smoke Alarms

Technical Specification (cont)

Power-On Indicator	Continuous green LED showing mains power present
Alarm	Electronic Piezoelectric sounder, providing sound three pulses; space; three pulses – in alarm state
Alarm Sound Output	85dB (A) (minimum) at 3m
Alarm Frequency	3.2 kHz typical
Alarm Status	Red LED flashes approximately once a minute showing normal operation Red LED flashes once a second when sensing smoke (sounder alarm sounds) RED LED flashes once every ten seconds to indicate in hush condition, auto reset after fifteen minutes RED LED off another smoke alarm in an interconnected system has sensed smoke and is signalling an alarm
Normal Operating Temperature Range	0 to 40°C
Humidity Range	Up to 93% Relative Humidity (RH)
Interconnect	Up to 24 of these units can be interconnected: - KF1R, KF1, KF2R, KF2, KF3R, KF3 - 1SFW, 1SFWR, 2SFW, 2SFWR, 3SFW, 3SFWR
Interconnect Options	Connectable as hard-wire interconnected system (up to 24 units as 'interconnect' detail above) Firex may be connected to Kidde Fyrnetics Slick® alarms. See user manuals downloadable from **www.smoke-alarms.co.uk** Use with optional remote control (see below)
Optional Controls	REMTH Wired Remote Test and Hush Unit allows test and hush of units interlinked as a system
Optional Surface Pattresses	SMK23U allows for surface conduit installations, such as retrofit. SMK23RU as above but with integral switchable relay for operating remote devices. Requires a live mains supply to function. SMK23RU relay base with voltage free relay contacts rated at 8A 24VDC, 8A 250Vac (resistive load), (relay for signalling/switching to/of devices other than the smoke or heat alarms) 132mm diameter x 20mm depth
Fixing	Mounting bracket ring supplied with two 'T' slot fitting option 57mm spacing to max of 90mm for standard screw fittings on back boxes Bracket has central access hole of 50mm diameter for cabling
Plastics used	NORYL, Cover, main body and mounting bracket
Dimensions	127mm diameter x 39mm depth (including mounting bracket)
Dimensions (Mounting Bracket)	133mm diameter, 9mm max depth typical
Weight	KF2 unit out of box – 242 grams KF2 unit in single box – 308 grams KF2R unit out of box – 210 grams KF2R unit in single box – 281 grams
Guarantee	6 years (including the battery on model KF2R)
BS 5839 Category	BS 5839 Part 6 Grade D BS 5839 part 6 Grade C when used with the REMTH unit giving some elements of a central control

Specifications are subject to variation by improvement and change

Wired Remote
Test and Hush Unit



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FirexOptVSSInp/812

Datasheet for Models:
KF3R
KF3

The new-look, cost-effective Firex cable-harness range of smoke and heat alarms – manufactured and supplied by Kidde, with the reassurance of a leading global manufacturer.

230V Mains Heat Alarms

Key Features

Firex hard-wired smoke and heat alarms all have a full 6-year guarantee and are BSi Kitemarked to reinforce the consistent quality provided by the world's largest manufacturer.

- Single 'Hush' and 'Test' button
- Choice of sealed-in rechargeable (three Panasonic lithium cells) or loose battery back-up ranges
- Supplied with base-plate

Lic No: 503753
BS 5446: Pt. 2: 2003

Applications

Both models are mains powered (for professional installation) with back-up power, complying with current minimum requirements of the relevant Building Regulations for new housing, i.e. Grade D (BS5839, Part 6).

Heat Alarms are for use in humid or dusty environments where smoke alarms will not operate satisfactorily, such as kitchens, boiler rooms, unconverted attics and garages.

They are triggered when the ambient temperature reaches 57°C and must always be interconnected with smoke alarms from the same product range.

Technical Specification

Sensor	Thermistor (Thermal resistor) within detection unit
Certification	BSi Kitemarked to BS 5446 Pt 2. 2003, as a Class A2 device
Button Test	Simulates the effect of heat at the sensor, checks electronics and sounder
Automatic Self-Test	Circuitry is tested and unit single beeps (chirps) if fault is detected
Supply Voltage	230V AC, 50Hz (nominal UK Voltage)
Power Consumption	Typical 50mA
Connection	Push fit/snap in grip type connector with 150mm long flying leads (supplied)
Battery back-up	(Model KF3) 1 off 9 Volt Alkaline Battery 522/6LR61 (User Replaceable) (Model KF3R) 3 off 3 Volt Rechargeable Lithium Cells Panasonic UL2330 (User Non replaceable)
Power-On Indicator	Continuous green LED showing mains power present

Kidde Firex – 2012 model numbers
(previous models in brackets)

Back-up type	Sealed-in rechargeable	Loose battery
Alarm type		
Ionisation smoke	KF1R (4881)	KF1 (4870)
Optical smoke	KF2R (4985)	KF2 (4973)
Heat	KF3R (4892)	KF3 (4899)

Models KF3R and KF3

230V Mains Heat Alarms

Technical Specification (cont)

Alarm	Electronic Piezoelectric sounder, providing sound – three pulses; space; three pulses – in alarm state
Alarm Sound Output	85dB (A) (minimum) at 3m
Alarm Frequency	3.2 kHz typical
Alarm Status	Red LED flashes approximately once a minute showing normal operation Red LED flashes once a second when sensing heat in excess of 58°C (sounder alarm sounds) RED LED off another smoke/heat alarm in an interconnected system has sensed smoke and is signalling an alarm
Normal Operating Temperature Range	0 to 40°C
Humidity Range	Up to 93% Relative Humidity (RH)
Interconnect	Up to 24 of these units can be interconnected: - KF1R, KF1, KF2R, KF2, KF3R, KF3 - 1SFW, 1SFWR, 2SFW, 2SFWR, 3SFW, 3SFWR
Interconnect Options	Connectable as hard-wire interconnected system (up to 24 units as 'interconnect' detail above) Note: Firex may be connected to Kidde Fyrnetics Slick® alarms. See user manuals downloadable from **www.smoke-alarms.co.uk** Use with optional remote control (see below)
Optional Controls	REMTH Wired Remote Test and Hush Unit allows test and hush of units interlinked as a system
Optional Surface Pattresses	SMK23U allows for surface conduit installations, such as retrofit. SMK23RU as above but with integral switchable relay for operating remote devices. Requires a live mains supply to function. SMK23RU relay base with voltage free relay contacts rated at 8A 24VDC, 8A 250Vac (resistive load), (relay for signalling/switching to/of devices other than the smoke or heat alarms) 132mm diameter x 20mm depth
Fixing	Mounting bracket ring supplied with two 'T' slot fitting option 57mm spacing to max of 90mm for standard screw fittings on back boxes Bracket has central access hole of 50mm diameter for cabling
Plastics used	NORYL, Cover, main body and mounting bracket
Dimensions	127mm diameter x 39mm depth (including mounting bracket)
Dimensions (Mounting Bracket)	133mm diameter, 9mm max depth typical
Weight	KF3 unit out of box – 213 grams KF3 unit in single box – 308 grams KF3R unit out of box – 180 grams KF3R unit in single box – 279 grams
Guarantee	6 years (including the battery on model KF3R)
BS 5839 Category	BS 5839 Part 6 Grade D BS 5839 part 6 Grade C when used with the REMTH unit giving some elements of a central control

Specifications are subject to variation by improvement and change

Wired Remote
Test and Hush Unit

Kidde Fyrnetics

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FirexHASSI/np/812